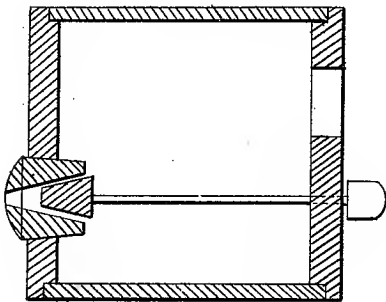
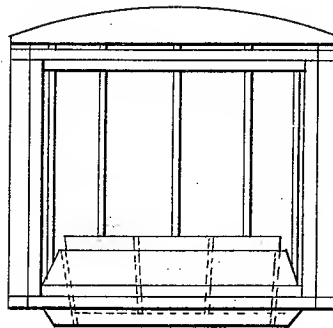
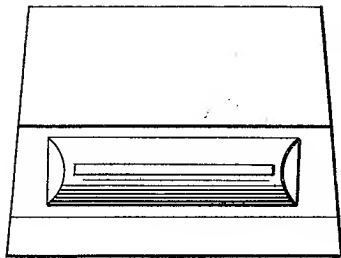


J. SILSBE.

Forge.

No. 343.

Patented Aug. 8, 1837.



UNITED STATES PATENT OFFICE.

JOHN SILSBE, OF TYRONE, NEW YORK.

MODE OF APPLYING HEATED AIR TO FURNACES, &c.

Specification of Letters Patent No. 343, dated August 8, 1837.

To all whom it may concern:

Be it known that I, JOHN SILSBE, of Tyrone, in the county of Steuben and State of New York, have invented a new and useful Improvement in a Machine for Applying Warm Air to Fire; and I do hereby declare the following to be a full and exact description.

The machine is a box made of cast iron or other metallic substance; the front of the box or machine is nine inches at the bottom, eight inches at the top and ten inches high; the back is of the same size as the front, and the sides seven inches from back to front; the sides, top, bottom and front to be cast whole in one piece; there is in the front of the box or machine a vacant space or opening four inches in width extending across the machine or box, into which there is a mouth piece fitted, and fastened by rods running through it and also through the back plate of the box where they are fastened by screws; through this mouth piece there is a mouth five inches in length and half an inch in breadth projecting or jutting out with lips, as it were, into the fire, and also extending about two inches in like manner into the interior of the box widening as it extends. Into this mouth there are three gates or valves fitted by which it may

be opened or closed as more or less air is required. The back of the box or machine is a separate plate fitted on through which there are three rods running which are attached to the gates or valves, and by which they are pushed in or drawn out of the mouth as more or less air is necessary; through this back plate there is also a hole for the admission of the air which hole is placed high in the machine than the mouth in the front part, in order that the air may strike the front part of the machine above the mouth, and thus become heated previous to its escape through the mouth.

What I claim as my improvement and desire to secure by Letters Patent, is—

The application of warm air to fire by means of a continuous mouth or conductor; (instead of separate conductors) by which the air is made to operate on the whole extent of the fire at the same time; and also the constructing of the mouth piece separate from the main body of the machine, by which means a new mouth piece may be supplied without casting the whole machine anew.

JOHN SILSBE.

Witnesses:

A. W. SUNDERLIN,
ELI FROST.